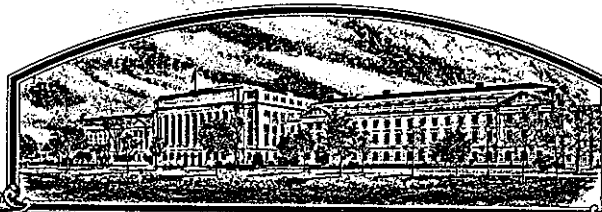


No.

8100001



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

ARCO Seed Company

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT 1542, AS AMENDED, 7 U.S.C. 2121 ET SEQ.)

TRITICALE

'Jenkins'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 27th day of January in the year of our Lord one thousand nine hundred and eighty-four.

Attest

Kenneth H. Egan
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

John R. Block
Secretary of Agriculture

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1a. TEMPORARY DESIGNATION OF VARIETY 6TA876		1b. VARIETY NAME A876 JENKINS <i>as per letter of 10/28/83</i>		FOR OFFICIAL USE ONLY PV NUMBER 8100001	
2. KIND NAME Triticale		3. GENUS AND SPECIES NAME Triticale Hexaploide		FILING DATE 10/07/80	TIME 11:00 A.M. P.M.
4. FAMILY NAME (BOTANICAL) Gramineae		5. DATE OF DETERMINATION July, '78		FEE RECEIVED \$ 500.00 \$ 250.00	DATE 10/07/80 1/9/84
6. NAME OF APPLICANT(S) <i>PER LETTER OF MAY 16, 1982</i> Kershen Triticale Co. DESERT SEED CO. INC. ARCO SEED COMPANY		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Box 1313, Canyon, Texas 79015 P.O. BOX 181, EL CENTRO, CALIFORNIA 92244		8. TELEPHONE AREA CODE AND NUMBER (601) 742-3435 808-655-4209 EXT	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation		10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION Texas		11. DATE OF INCORPORATION Apr. 13, '77	
12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: Donald Kershen, Box 1313, Canyon, TX 79015 MR. EARLY EWING, BOX 36, BENOIT, MISS. 38725 <i>as per letter of APRIL 8 & MAY 16, 1982</i> <i>DUR PER LETTER OF FEB. 25, 1981</i>					

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Novelty Statement.
- ☒ 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- ☐ 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a). (If "Yes," answer 14B and 14C below.) ☐ YES ☒ NO

14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☐ YES ☒ NO

14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED?
☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? ☐ YES ☒ NO (If "Yes," give name of countries and dates.)

15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? ☐ YES ☒ NO (If "Yes," give name of countries and dates.)

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? ☒ YES ☐ NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

Aug. 15, 1980
(DATE)

Donald Kershen
(SIGNATURE OF APPLICANT)

(DATE)

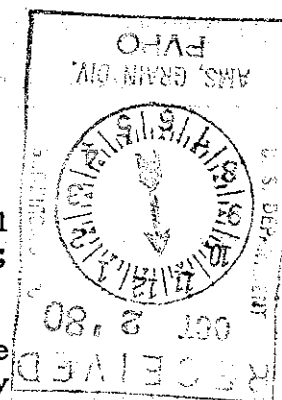
(SIGNATURE OF APPLICANT)

INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- 5 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 13a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- 13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- 13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- 14a If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- 15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.



Kershen Triticale Company

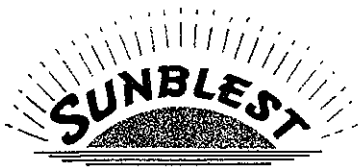
8100001

EXHIBIT A ORIGIN & BREEDING HISTORY OF A876

JENKINS

ent
as per letter dtd 10/

The actual record of origin for this wheat-rye amphiploid was inadvertently lost in the movement of records from Winnipeg, Canada to Salinas, California in 1966, but it is believed that the rye parent is a non-brittle derivative of Secale montanum. The first observation indicating potential for this hexaploid triticale was made at Montague, California during the crop season 1969-1970. This was immediately followed with additional favorable observations at Hereford and Weslaco, Texas, during the next growing period. There followed a period of extensive testing, observation and reselection, culminating in the production of breeder seed in 1978 with the selection of 200 heads, and this seed has remained true to type since that time. Because of the bread-making qualities of the flour, it is probable that the present true-breeding selection derived from an outcross with an unknown secondary triticale.



Dessert Seed Company, Inc.

JENKINS

Triticale Application No. 8100001 'A876'

*See
a per letter dtd 10/28*

Exhibit A continued A876 has been observed to be uniform and stable for all essential and distinctive characters since 1976 by myself and Dr. B. Chas. Jenkins. Since 1978, we have selected 200 typical heads each year that are grown in head rows to insure continued pure seed.

The most common variant is neck pubescence. Approximately 95% of the plants have no pubescence on the stem, but about 5% have slight neck pubescence, averaging 1 centimeter in length from the base of the spike. Three other variants are seen on occasion, occurring in less than 1/10th of 1% of the plants. There are taller plants, brown glumes, and sterile areuploids.

Kershen Triticale Company

8100001

EXHIBIT B - NOVELTY STATEMENT TRITICALE A876 JENKINS

Est
as per letter dtd 10/28/83

This triticale variety, tested under the designation 6TA876, is a very unique type, not closely resembling any other triticale variety. For comparison purposes we are using the known variety Councilll because of the data compiled by Alabama A & M with their Uniform Winter Triticale Nursery. This data is summarized on the accompanying sheets, and generally shows that A876 is different from Councilll in the following ways. It is significantly higher yielding in its adapted area, which is generally within the Hard Red Winter Wheat Belt for grain. It matures approximately five to seven days later than Councilll, stands about 15 cm. taller, and has weaker straw. A876 is more winter-hardy, being one of the most winter-hardy of all triticales. The bushel weight is significantly higher, averaging 52 lbs./bu. (67 kg/hl) at Canyon and Hereford, Texas test plots the past five years (author's observation). The average weight in the Southwestern area tests on the accompanying sheets is 65 kg/hl, while the Councilll averaged 56.5 kg/hl. The A876 seed is less wrinkled, smaller, and more football shaped than the seeds of Councilll, and has a lower 1000 gram kernel weight. Additional data will be sent after next years harvest because the drought this year caused non-typical plant and seed development.

SUBJECT: TRITICALE APPLICATION

No. 8100001, 'A876' JENKINS

as per letter dtd
10/28/83

Novelty Statement -

Additional information -

A876 is most similar to the variety Council of all the triticale varieties now available to the public. It is true that the variety A386A has an awn length more similar to A876 than Council, and the variety A522 has winter hardiness more similar to A876 than Council, but these are old varieties sold by Kershner Triticale Co. that are becoming obsolete. They will not be protected and will soon be off the market. In total, the variety Council is more similar than these other varieties to A876, has more un-biased comparative data with A876, and has its characteristics identified and known to the Plant Variety Protection Office. The genetic background on all four of the above lines is quite different, each from the other. The A876 is a very unique type, making comparisons difficult.

Rm / Kershner

Table BT a Page 1000 of 67A 876 at the same location. Very poor results. Nursery p.

	1	2	3	4	5	6	7	8	9	10	11	12
Yield - Kilo/hect												
Southwest Region	67A 876	1978-79	1977-78	1976-77	1975-76	1974-75	1973-74	1972-73	1971-72	1970-71	1969-70	1968-69
Southwest CV	1973	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015
Clemson, S.C.	329	1142	1142	1142	1142	1142	1142	1142	1142	1142	1142	1142
Quincy, Fla.	3504	2716	2716	2716	2716	2716	2716	2716	2716	2716	2716	2716
Athens, Ga.	1949	1907	1907	1907	1907	1907	1907	1907	1907	1907	1907	1907
Knoxville, Tenn.	670	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320
Normal, Al	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
Talladega, Ala.	720	1521	1521	1521	1521	1521	1521	1521	1521	1521	1521	1521
Average	1795	1805	1805	1805	1805	1805	1805	1805	1805	1805	1805	1805
Mid South	1365	1827	1827	1827	1827	1827	1827	1827	1827	1827	1827	1827
Robtlex Ark	2689	2689	2689	2689	2689	2689	2689	2689	2689	2689	2689	2689
Kansas, Ky.	2286	2286	2286	2286	2286	2286	2286	2286	2286	2286	2286	2286
Maryland, Av.	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724
Average	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724
Mid West	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600
Columbia, Mo.	3320	3320	3320	3320	3320	3320	3320	3320	3320	3320	3320	3320
Stillwater, Ok	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970
Lincoln, Neb	13480	13480	13480	13480	13480	13480	13480	13480	13480	13480	13480	13480
Woodstock, Ohio	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724
Average	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724
South west	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600
El Collins, Colo.	3320	3320	3320	3320	3320	3320	3320	3320	3320	3320	3320	3320
Antesler, NM.	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970
Los Lunas NM	13480	13480	13480	13480	13480	13480	13480	13480	13480	13480	13480	13480
Canyon Tx	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724
Hartford, Tx	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724
Average	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724
Fullerton WA	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724	3724

Table C.I.a contd. Performance of LTA 876 at Various Locations in Uniform Littered Nurseries P.

Maturity - Days from Fall to 50% head (in mo)	1	2	3	4	5	6	7	8	9	10	11	12
South east	LTA 876 1978-79	1977-78	avg	LTA 386 A 1978-79	1977-78	avg	LTA 313 A 1978-79	1977-78	avg	Change 1978-79	1977-78	(1977-78) (1977-78)
Clemson S.C.	134	L								123	M	
Quincy IL	M									L		
Arkens Ga												
Knoxville, TN	134	128	(131)							116	126	(121)
Normal, AL	L	118								L	112	
Tallapoosa, AL												
Average												
Mid-South												
Rehner, Ar.	143									156		
Keiser, Ar.	170	165	(175)							169	166	(175)
Memphis, Ar.	160	153	(165)							152	157	(165)
Average												
Mid-West												
Columbia, Mo.	L									M		
Stillwater, Ok.	L	133								M	120	
Lincoln, Neb.	L									M		
Wooster, Oh.	158	158	(158)							152	157	(157)
Average												
Southwest												
Fort Collins Colo	169	161	(164)							156	148	(152)
Artesia, N.M.	L									M		
Las Lunas, NM	L									L		
Canyon, TX	152									149		
Hersford, TX	VL									VL		
Avg.												
Pullman, WA	165	162	(165)							155	150	(152)

Table B.7a cont'd. Performance of 67A 876 at various locations. Further Summary P3

81000001

Mature Plant	Hobart	Gen.	1	2	3	4	5	6	7	8	9	10	11	12
	67A 876	1978-79	1977-78	Aug	67A 876	78-79	77-78	Aug	67A 876	78-79	77-78	Aug	67A 876	77-78
Southeast														
Clemson, S.C.	152	152	156											2149
Gunn, FL	146	146	142											2149
Athens, Ga.														
Knoxville, TN	157	157	157											
Normal, AL	131	131	142											
Tallapoosa, AL	120	120	147											
Average	144	144	149											
Mid-South														
Rehner, Ar.	117	117	151											
Kearney, Ar.	153	153	136											
Marion, Ar.	147	147	143											
Average	139	139	143											
Mid-West														
Columbia, Mo.	150	150												
Stillwater, Ok.	134	134												
Lincoln, Neb.	117	117												
Woodstock, Ok.	124	124	155											
Average	141	141	155											
Southwest														
Fort Collins Co.														
Artesia, NM.	124	124												
Los Lunas, NM.	125	125												
Canyon TX	120	120												
Hersford TX	147	147												
Avg	127	127	142											
Pullman WA														

118

157

151

130

123

126

118

122

122

122

122

122

122

122

122

122

Table B1a cont'd. Performance of 6TAR76 at various locations Eastern Uniform Mining p 4

	1	2	3	4	5	6	7	8	9	10	11	12
076 loading	6TA 876 1978-79	6TA 876 70-78	6TA 876 70-78	6TA 388 A 78-77	6TA 388 A 77-78	avg. 77-78	6TA 513 A 78-79	6TA 513 A 77-78	avg. 77-78	6TA 513 A 78-79	6TA 513 A 77-78	6TA 513 A 77-78
Southeast												
Clemson SC.	0	0								0		
Quincy, Fla	70	35								20		
Athens, Ga												
Knoxville Tn.	at 30	91								48		
Normal, Al.												
Taliessee, Al.	100									5		
Average												
Mid-South												
Rehner Av.	30									1		
Kelser Av.	8									1		
Maximina Av.	1									0		
Average												
Mid-West												
Columbia, Mo.	70									2		
Stillwater, Ok	64									0		
Lincoln, Nebr.												
Whester, Ok.	70									60		
Average												
South west												
Fort Collins Colo												
Artesia NM	30									3		
Los Lunas NM												
Canyon, Tx.												
Hersford, Tx												
Average												
Pellman Wier.												

50%

16%

Table B.1a cont'd. Performance of LTA 876 at various locations. Littered Uniform Nursery p 5

	1	2	3	4	5	6	7	8	9	10	11	12
% Winter Kill												
Southeast												
Clemson S.C.												
Quincy, Ill.												
Athens, Ga.												
Knoxville, Tenn.												
Normal, Al.												
Tallapoosa, Al.												
Average												
MID-SOUTH												
Bohmer, Ar												
Keiser, Ar												
Marion, Ar												
Average												
MID-WEST												
Washington, Mo.												
Columbia, Mo.												
Stillwater, Ok.												
Lincoln, Neb.												
Wheaton, Ok.												
Average												
SOUTHWEST												
Font Collins Co												
Artesia, NM												
Los Lunas, NM												
Canyon, Tx												
Hesperia, Tx												
Average												
Pullman, Wa.												

8100301

183

Table B1a Performance of 6TA 876 at Various Locations Uniform Litteral Nursery p6

Test wt.	kg/10	1	2	3	4	5	6	7	8	9	10	11	12
SOUTHEAST													
C/CLINSON, SC.													
Quincey, FL.													
Athens, Ga.													
Knoxville, TN													
Nashville, AL.													
Tallahassee, AL													
Average													
MID-SOUTH													
Rohwer, Ar.													
Reiser, Ar.													
Mayfield, Ar.													
Average													
MID-WEST													
Columbia, Mo.													
Stilwell, Ok.													
Lincoln, Neb.													
Woods, Ok.													
Average													
SOUTH WEST													
Fort Collins, Co.													
Artesia NM													
Los Lunas NM													
Canyon, Tx													
Hersford, Tx													
Average													
Callaway, WA													

contd.
told BT a Professor of LTA 876 at Kansas State Univ. during 1977

1000078

Table B.T.A. cont'd Performance of B.T.A. 876 at various locations Litchfield University p 7a

Diseases Cont'd	1	2	3	4	5	6	7	8	9	10	11	12
	67A 876	77-78	Aug							Council (AM 2149)		
Septoria Int.	1976-77	77-78	Aug							1978-79	77-78	Aug
Krakow Pol	50	7								42	9	
Kearney, Ar.	2									2		
Madison, Ar.	2									275		
Baker, Ar.	3									25		
Clemson SC	0									0		
Septoria Nod.												
Krakow, Pol	80									70	9	
Clemson, SC.												
Yellow Dwarfs												
Davis, Ca.		3										
Claviceps W. Gray & Kerns		12										

John B. Ta. sented Purchase of 670 876 of Various Securities Litchfield Union Agency p 8

[illegible]

Table B1a cont'd. Performance of GTA 876 at Various Durations Uniform Intense Humidity 10°

Baking + Milling	1	2	3	4	5	6	7	8	9	10	11	12
	GTA 876	GTA 876	Normal	Air Samples								
	1978-79	77-78	Any									
Flour Yield %	49.3	56	53 (not typical)							42.2	59	51
Flour Protein %	11.13	10.6								9.0	11.4	
Sedimentation ml	20.5	36								35.8	44	
Flour Ash %	0.56									0.55		
Absorption %	48.8	50.6								47.8	51.0	
L. Betanin Absorption	11.0	11.6								12.2	10.5	
Area Under Curve cm ²	70.8	53.9								54.9	67.2	
Total Volume C.C.	49.2	34.6								62.0	34.7	
Active Protein		14.1									12.2	
see Kansas Sta. data attached for ASD												

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782
OBJECTIVE DESCRIPTION OF VARIETY
TRITICALE

NAME OF APPLICANT(S) Kershen Triticale Company	VARIETY NAME OR TEMPORARY DESIGNATION A876 JENKINS <i>improvement of A876</i>
ADDRESS (Street and No., or F.F.D. No., City, State, and ZIP Code) Box 1313, 1400 4th Avenue Canyon, TX 79015	FOR OFFICIAL USE ONLY PVPO NUMBER 8100001

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g., **0 8 9** or **0 9**) when number is either 99 or less or 9 or less.

1. GROWTH HABIT:

3	1 = SPRING	2 = INTERMEDIATE	3 = WINTER	
1	Juvenile Plant Growth:	1 = PROSTRATE	2 = SEMIPROSTRATE	3 = ERECT
2	Photoperiod:	1 = INSENSITIVE	2 = SENSITIVE	

2. PLOIDY:

1	1 = HEXAPLOID	2 = OCTOPLOID	3 = OTHER (Specify) _____
4 2	2n CHROMOSOME NUMBER		

3. MATURITY (50% Flowering):

4	1 = VERY EARLY	2 = EARLY	3 = MIDSEASON	4 = LATE	5 = VERY LATE
0 9	DAYS EARLIER THAN	3	1 = CARMACK	2 = ROSNER	3 = PATHFINDER
0 9	DAYS LATER THAN	3	4 = 6TA 204	5 = ARMADILLA	

4. HEIGHT:

1 3 0	CM. HIGH	5	1 = DWARF	2 = SEMIDWARF	3 = SHORT
0 5	CM. SHORTER THAN	3	4 = MIDTHALL	5 = TALL	
0 5	CM. TALLER THAN	3	1 = CARMACK	2 = ROSNER	3 = PATHFINDER
			4 = 6TA 204	5 = ARAMADILLA	

5. PLANT COLOR AT BOOT STAGE:

3	1 = YELLOW GREEN	2 = GREEN	3 = BLUE GREEN
----------	------------------	-----------	----------------

6. STEM:

2	Anthocyanin:	1 = ABSENT	2 = PRESENT	sometimes in certain environments	
2	Neck Hairiness:	1 = NONE	2 = SLIGHT	3 = MODERATE	4 = HEAVY
3	Shape Of Neck:	1 = STRAIGHT	2 = WAVY	3 = OTHER (Specify) <u>very slight wave</u>	

7. LEAVES:

1	Flag Leaf:	1 = NOT TWISTED	2 = TWISTED	0 0	CM. LEAF LENGTH: 1st Leaf Below Flag Leaf
2	Waxy Bloom On Leaf At Boot:	1 = ABSENT	2 = PRESENT	0 0	more narrow than pathfinder
2	Leaf Carriage:	1 = UPRIGHT	2 = RECURVED	3	MM. LEAF WIDTH: 1st Leaf Below Flag Leaf
		3 = DROOPING			Auricle Color: 1 = COLORLESS OR WHITE 2 = PURPLE
					3 = OTHER (Specify) <u>both 1&2, most</u>

8. HEAD:

☒ 2 Density: 1 = LAX 2 = MIDDENSE 3 = DENSE wheat definitions do not fit very well
☒ 5 Shape: 1 = FUSIFORM 2 = OBLONG 3 = CLAVATE 4 = ELLIPTICAL 5 = OTHER (Specify) 1&2 combined
☒ 4 Awnedness: 1 = AWNLESS 2 = APICALLY AWNLETED 3 = AWNLETED 4 = AWNED
☒ 1 Awn Color: 1 = WHITE 2 = YELLOW 3 = TAN 4 = BROWN 5 = BLACK
☒ 1 ☒ 2 CM. HEAD LENGTH MM. HEAD WIDTH

9. GLUMES AT MATURITY:

☒ 1 Pubescence: 1 = GLABROUS 2 = SLIGHTLY PUBESCENT 3 = PUBESCENT
☒ 2 Color: 1 = WHITE 2 = ^{Off-}YELLOW 3 = TAN 4 = BROWN 5 = BLACK
☐ Length: 1 = SHORT 2 = MIDLONG 3 = LONG ☐ Width: 1 = NARROW 2 = MIDWIDE 3 = WIDE
☐ Shoulder: 1 = WANTING 2 = OBLIQUE 3 = ROUNDED 4 = SQUARE 5 = ELEVATED 6 = APICULATE ☐ Beak: 1 = OBTUSE 2 = ACUTE 3 = ACUMINATE

10. COLEOPTILE COLOR:

☒ 2 1 = WHITE 2 = GREEN 3 = PURPLE

11. SEED:

☒ 3 ^{PER LETTER OF AHEAD, 1932, R. K. ROBINSON}
☒ 2 Shape: 1 = OVATE 2 = OVAL 3 = ELLIPTICAL
☒ 2 Smoothness: 1 = SMOOTH 2 = SLIGHTLY WRINKLED 3 = WRINKLED
☐ Brush Area: 1 = SMALL 2 = MIDSIZE 3 = LARGE
☐ Brush Length: 1 = SHORT 2 = MIDLONG 3 = LONG
☐ Phenol Reaction: 1 = IVORY 2 = FAWN 3 = LIGHT BROWN 4 = BROWN 5 = BROWN BLACK
☒ 3 Color: 1 = WHITE 2 = AMBER 3 = ^{off}RED 4 = PURPLE 5 = BLACK 6 = OTHER (Specify) _____
☒ 3 ☒ 3 GMS. PER 1,000 SEED

12. DISEASE (0 = Not Tested, 1 = Susceptible, 2 = Resistant, 3 = Tolerant):

<input checked="" type="checkbox"/> R STEM RUST (Races) _____	<input checked="" type="checkbox"/> R LEAF RUST (Races) _____
<input checked="" type="checkbox"/> R STRIPE RUST (Race) _____	<input type="checkbox"/> 0 ERGOT
<input type="checkbox"/> 0 POWDERY MILDEW _____	<input type="checkbox"/> 0 BACTERIAL STRIPE
<input type="checkbox"/> 0 SEPTORIA - <u>pus 664/1(5)</u>	<input type="checkbox"/> 0 YELLOW DWARF
<input type="checkbox"/> 0 OTHER (Specify) _____	<input type="checkbox"/> 0 OTHER (Specify) _____

13. INSECT (0 = Not Tested, 1 = Susceptible, 2 = Resistant, 3 = Tolerant):

☒ 3 GREENBUG

CEREAL LEAF BEETLE

OTHER (Specify) _____

HESSIAN FLY RACE:

<input type="checkbox"/> 0 GP	<input type="checkbox"/> 0 A	<input type="checkbox"/> 0 B	<input type="checkbox"/> 0 C
<input type="checkbox"/> 0 D	<input type="checkbox"/> 0 E	<input type="checkbox"/> 0 F	<input type="checkbox"/> 0 G

14. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	VARIETY
PLANT TILLERING	Pathfinder
WINTER HARDINESS	Pathfinder
AREA OF ADAPTATION	Pathfinder
SEED SHAPE	Pathfinder

REFERENCES:

L. W. Briggie and L. P. Reitz, 1963, Classification of Triticum Species and Wheat Varieties Grown in the United States, Technical Bulletin 1278, USDA.

W. E. Walls, 1965, A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity, Contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts.

COMMENTS:

A876 is a true winter habit triticales, whereas Pathfinder is an intermediate (facultative) type. The A876 does not resemble Pathfinder very much, but Pathfinder is the closest to A876 listed on Exhibit C. Since Pathfinder has had very little official testing, and under the designation 6TA208 was tested before A876 was included, we are using Councill as a comparative variety where needed.

The A876 appears to be an excellent parent for new triticales, and would be a good selection for comparative use on Exhibit C as a winter type. The leaf length and width will be sent next spring as these measurements have never been taken.

ASSIGNMENT

Whereas Kershen Triticale Company, a Texas corporation, is the owner of all right, title, and interest in the application for Plant Variety Protection identified as follows:

Triticale application number 8100001 'A876'
Effective filing date - October 7, 1980
Title - Triticale Variety 6TA876;

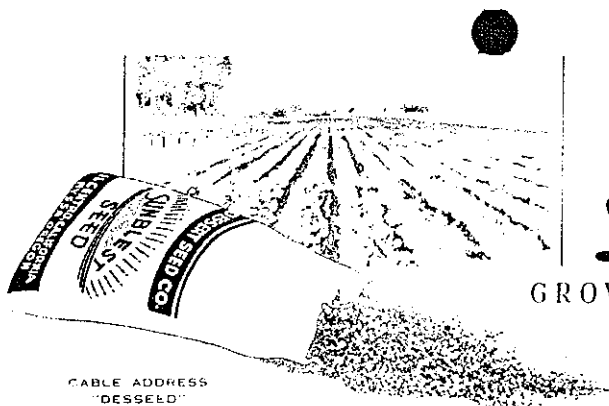
Whereas Kershen Triticale Company, Delaware, a Delaware corporation, has agreed to purchase all the assets of Kershen Triticale Company;

Now, therefore, Kershen Triticale Company hereby grants, conveys, assigns, and delivers all its right, title, and interest in the above identified application to Kershen Triticale Company, Delaware.

KERSHEN TRITICALE COMPANY

BY: *Donald J. Kershen*

TITLE: *president*



SUNBLEST
Dessert Seed Company, Inc.
GROWERS OF SEED

PAT. NO. 427936

MAIN OFFICE

P.O. BOX 181, EL CENTRO, CALIFORNIA 92244-0181

DESSERT SEED COMPANY, INC.

P.O. BOX 36

BENICIT, MISS. 38725

601/742-3435

CABLE ADDRESS
"DESSELD"

TWX #Desseedco ELC 910-322-1314

May 16, 1982

-NOTICE-

DISCLAIMER OF ALL WARRANTIES AND AGREEMENT TO LIMIT DAMAGES - Seed sold by Dessert Seed Company, Inc. is sold "As Is" without warranty either expressed or implied. Specifically, DESSERT SEED COMPANY, INC. MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The description of the seed set forth on tags, invoices and contract is believed to be accurate, however, because of the difficulties of identifying types or varieties or strains of seed by visual observation, DESSERT SEED COMPANY, INC. EXPRESSLY DISCLAIMS ANY WARRANTY THAT THE SEEDS SOLD CONFORM TO THE DESCRIPTION. ANY LIABILITY OF DESSERT SEED COMPANY, INC. IS LIMITED IN AMOUNT TO THE PURCHASE PRICE OF THE SEED AND THIS WILL BE THE BUYER'S EXCLUSIVE REMEDY UNDER ALL CIRCUMSTANCES, including but not limited to negligence, errors, omissions, mixed lots, wrong variety, performance of the seed or poor germination. These seeds are sold at the price quoted only upon the condition that the above disclaimer of warranty and the limitation of damages are part of the basis of the bargain. Seeds not accepted under these terms should be returned at once in the original unopened container and buyer should immediately request a price quotation which includes such warranties as the basis of the bargain. By accepting delivery of these seeds, buyer and all other persons coming into possession of these seeds agree to the above terms. DESSERT SEED COMPANY, INC.

Dr. Douglas C. Bailey
Examiner, Plant Variety Protection Office
National Agricultural Library Building
Beltsville, MD 20705

Dear Dr. Bailey:

The ownership of Kershen Triticale Company has been transferred to Dessert Seed Company, Inc., P. O. Box 181, El Centro, California 92244. Dessert Seed Company is now the owner of the P.V.P. rights of Triticale A876, application #8100001, date of filing October 7, 1980.

Sincerely yours,

Ronald Kershen
Ronald Kershen

RK/mvg

cc: Dr. Ron Engle
Mr. James P. Trimble
Early C. Ewing, Jr.

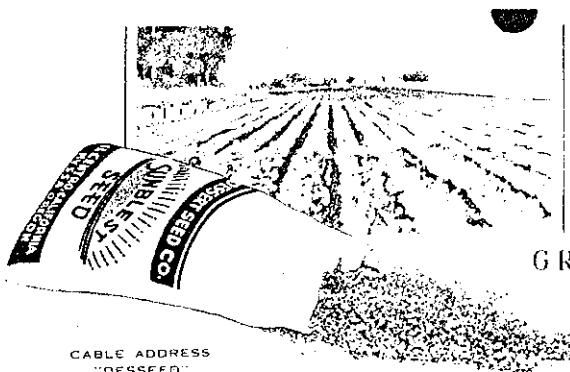
GROWERS OF THE FOLLOWING SEEDS

ASPARAGUS, BEET, BROCCOLI,
CABBAGE, CANTALOUPE, CARROT,
CAULIFLOWER, CELERY, CHICORY,
COLLARDS, CUCUMBER, ENDIVE,
HERBS, KOHLRABI, LETTUCE, LEEK,
MELON, MUSTARD, OKRA, ONION,
PARSLEY, RADISH, SQUASH, TOMATO,
TURNIP, AND WATERMELON, ALFALFA,
CLOVER, GRASSES FLOWER SEED
GROWERS

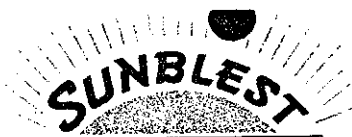
20

MEMBER

AMERICAN SEED TRADE ASSN.
SOUTHERN SEEDMEN'S ASSN.
PACIFIC STATES SEEDMEN'S ASSN.



GROWERS OF SEED



Dessert Seed Company, Inc.

PAT. NO. 427936

MAIN OFFICE

P.O. BOX 181, EL CENTRO, CALIFORNIA 92244-0181

TELEPHONE 714-352-2081

CABLE ADDRESS
"DESSEED"

TWX #Desseedco ELC 910-322-1314

Plant Variety Protection Office
USDA-ARS
National Ag Library Bldg.
Beltsville, MD 20705

June 16, 1983

-NOTICE-

DISCLAIMER OF ALL WARRANTIES AND AGREEMENT TO LIMIT DAMAGES - Seed sold by Dessert Seed Company, Inc. is sold "As Is" without warranty either expressed or implied. Specifically, DESSERT SEED COMPANY, INC. MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The description of the seed set forth on tags, invoices and contract is believed to be accurate, however, because of the difficulties of identifying types or varieties or strains of seed by visual observation, DESSERT SEED COMPANY, INC. EXPRESSLY DISCLAIMS ANY WARRANTY THAT THE SEEDS SOLD CONFORM TO THE DESCRIPTION. ANY LIABILITY OF DESSERT SEED COMPANY, INC. IS LIMITED IN AMOUNT TO THE PURCHASE PRICE OF THE SEED AND THIS WILL BE THE BUYER'S EXCLUSIVE REMEDY UNDER ALL CIRCUMSTANCES, including but not limited to negligence, errors, omissions, mixed lots, wrong variety, performance of the seed or poor germination. These seeds are sold at the price quoted only upon the condition that the above disclaimer of warranty and the limitation of damages are part of the basis of the bargain. Seeds not accepted under these terms should be returned at once in the original unopened container and buyer should immediately request a price quotation which includes such warranties as the basis of the bargain. By accepting delivery of these seeds, buyer and all other persons coming into possession of these seeds agree to the above terms. DESSERT SEED COMPANY, INC.

This is to notify you that Dessert Seed Company, Inc. will be changing its name to ARCO Seed Company effective July 1st, 1983. We remain a subsidiary of Atlantic Richfield Company.

Our billing addresses and telephone numbers will remain unchanged. Please change your billing files accordingly.

Sincerely,

DESSERT SEED COMPANY, INC.

B.E. Smelser
Controller

BES:ls

GROWERS OF THE FOLLOWING SEEDS

ASPARAGUS, BEET, BROCCOLI,
CABBAGE, CANTALOUPE, CARROT,
CAULIFLOWER, CELERY, CHICORY,
COLLARDS, CUCUMBER, ENDIVE,
HERBS, KOHLRABI, LETTUCE, LEEK,
MELON, MUSTARD, OKRA, ONION,
PARSLEY, RADISH, SQUASH, TOMATO,
TURNIP, AND WATERMELON, ALFALFA,
CLOVER, GRASSES FLOWER SEED
AND TRITICALE

21

MEMBER

AMERICAN SEED TRADE ASSN.
SOUTHERN SEEDMEN'S ASSN.
PACIFIC STATES SEEDMEN'S ASSN.